FIG. 1

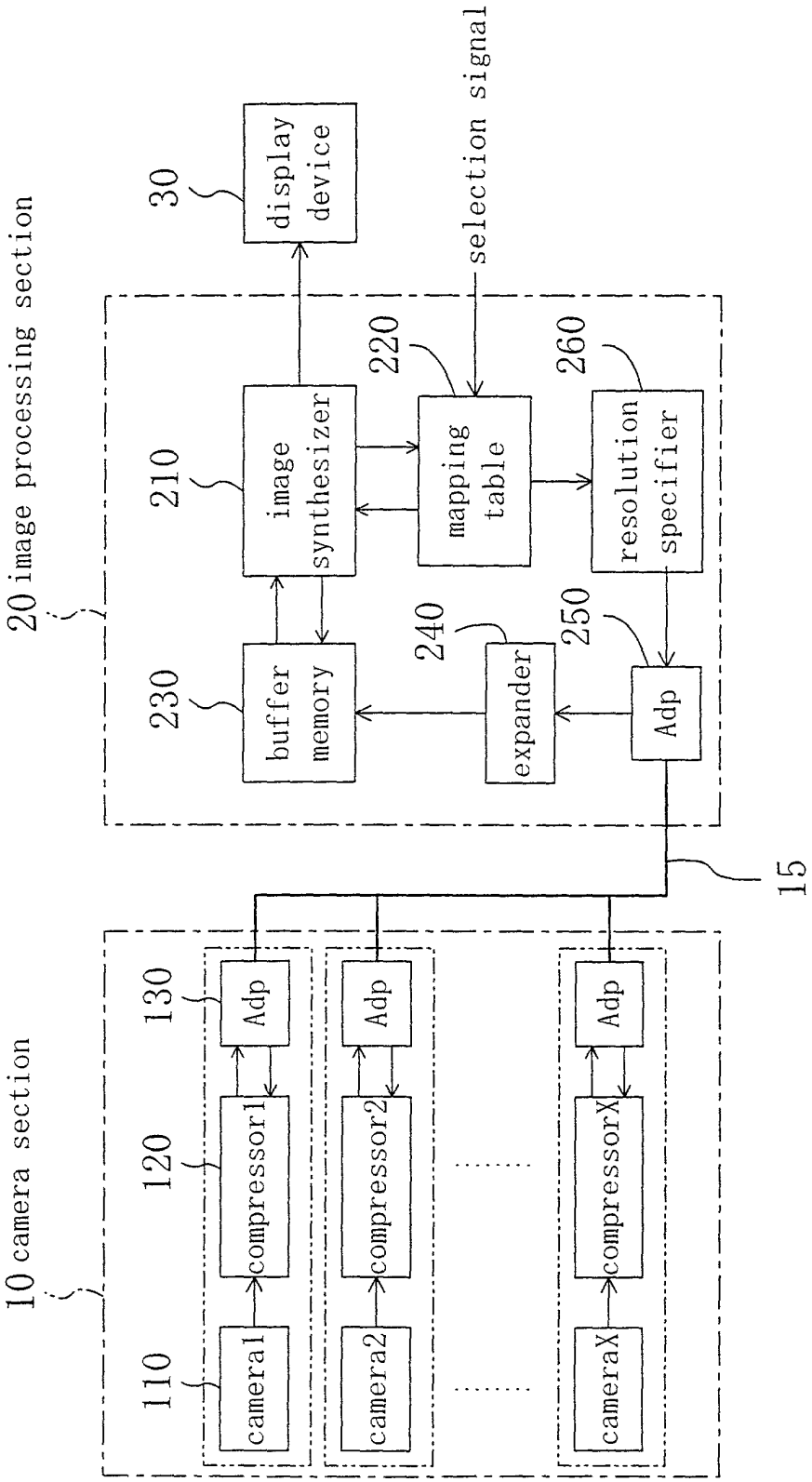

10 camera section
20 image processing section
30
display device
selection signal
110
camera1
camera2
cameraX
120
compressor1
compressor2
compressorX
130
Adp
Adp
Adp
15
210
image synthesizer
220
mapping table
260
resolution specifier
230
buffer memory
240
expander
250
Adp

FIG. 2

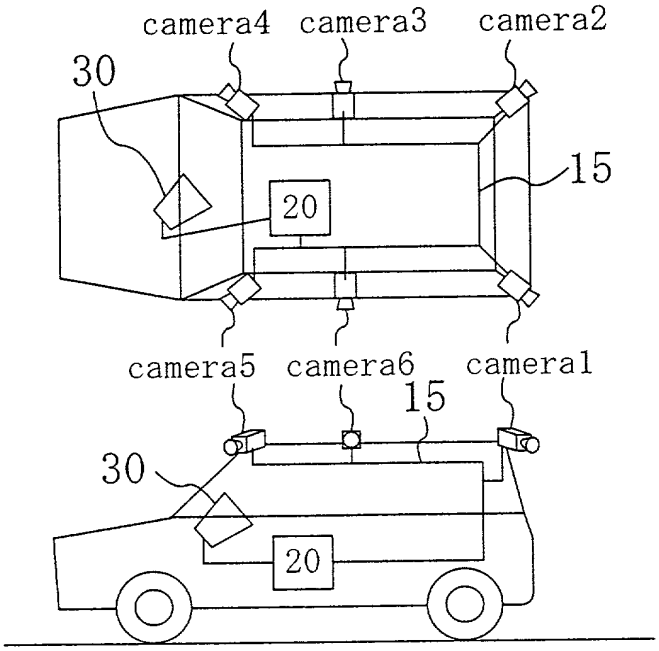


FIG. 3

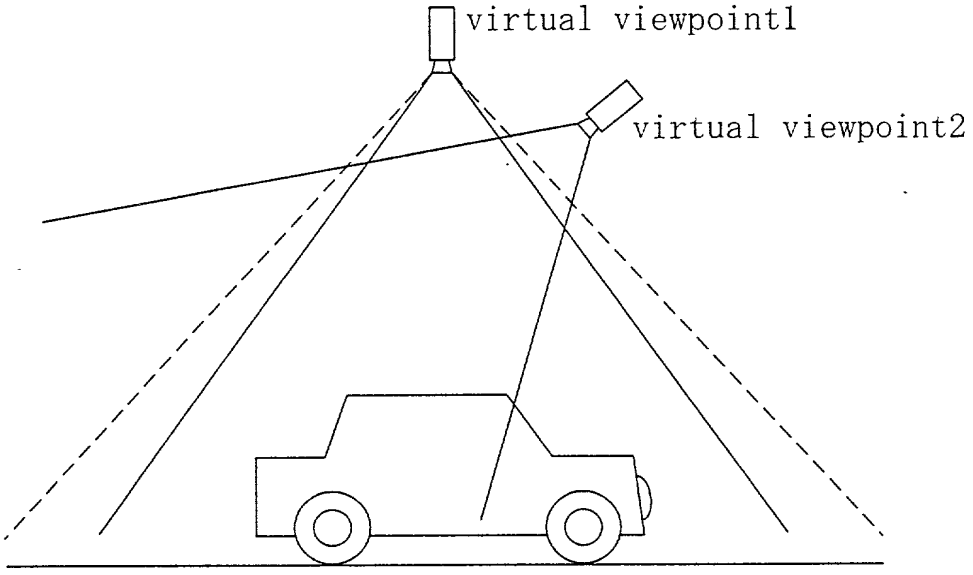
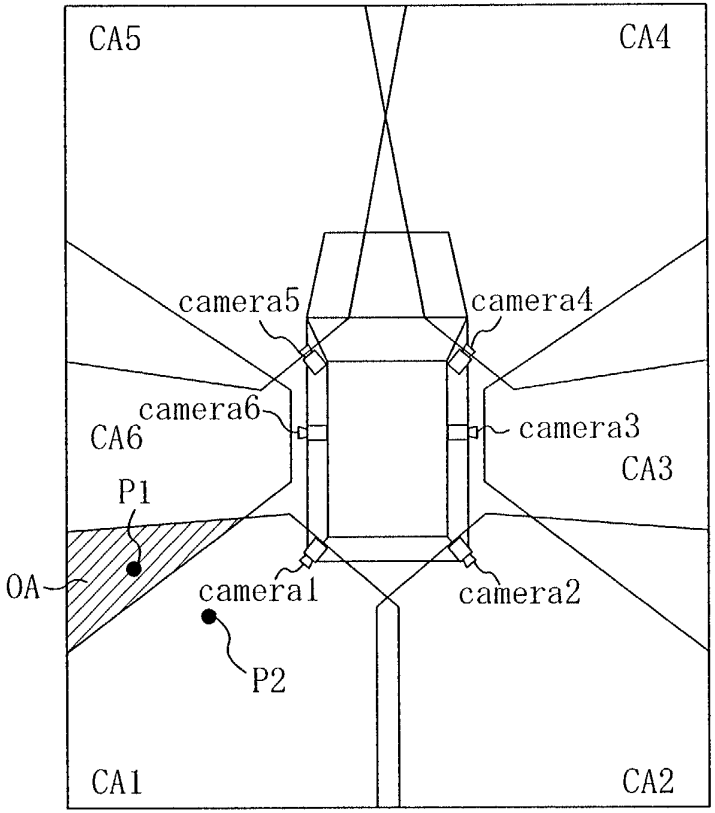
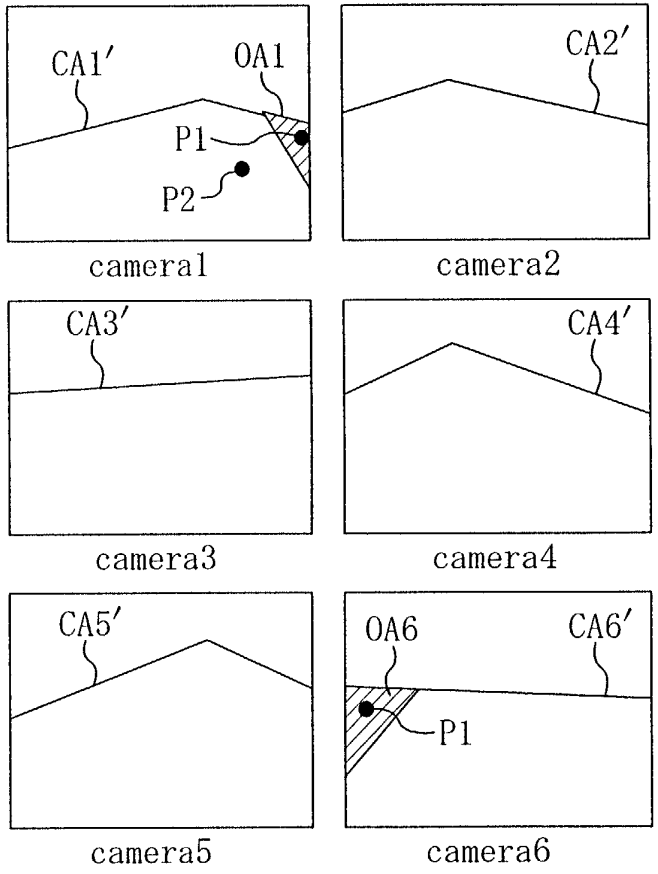


FIG. 4A



synthesized image

FIG. 4B



camera image

FIG. 5A

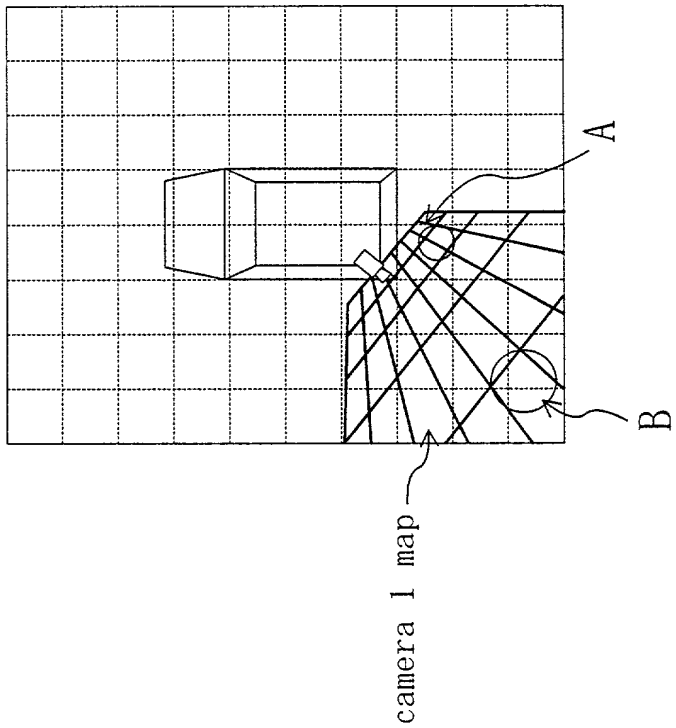

<synthesized image>
A
B
camera 1 map

FIG. 5B

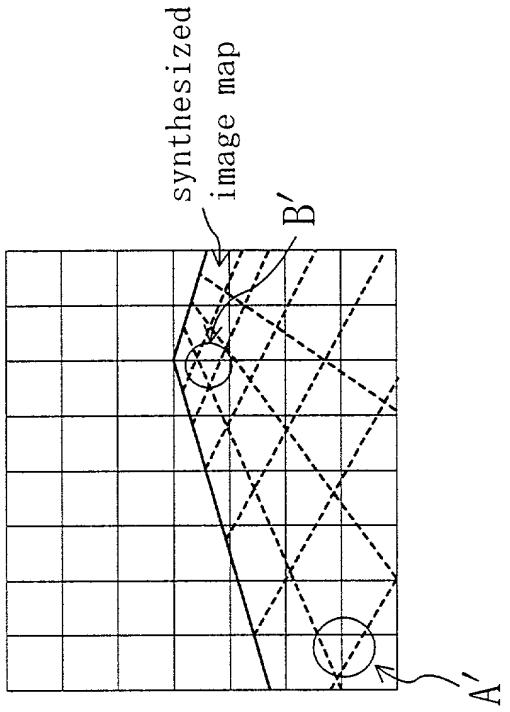

<camera 1>
synthesized image map
B'
A'

FIG. 6A

<camera 1>

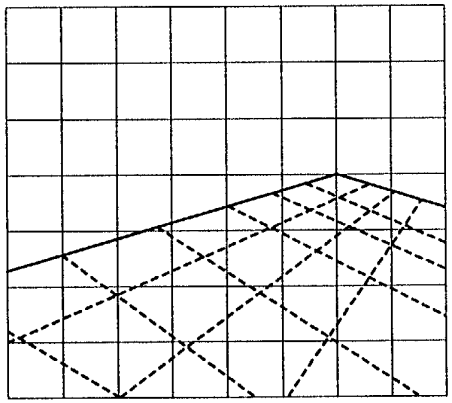


FIG. 6B

<necessary resolutions>

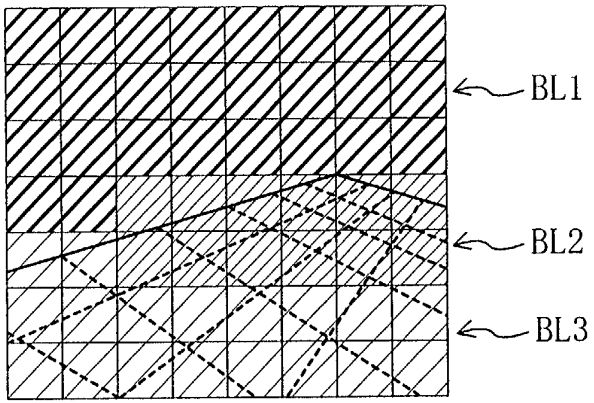


FIG. 7C

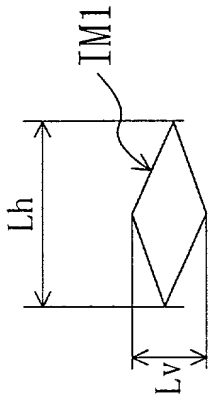


FIG. 7B

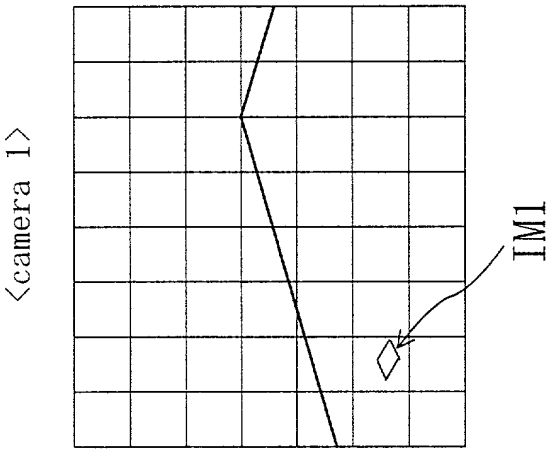


FIG. 7A

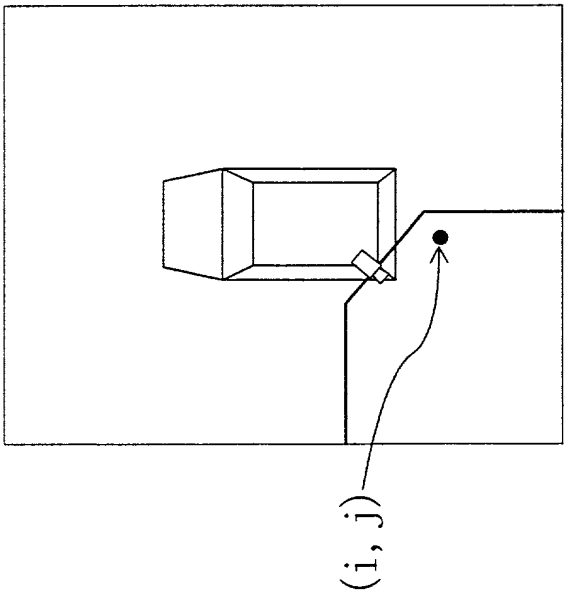


FIG. 8

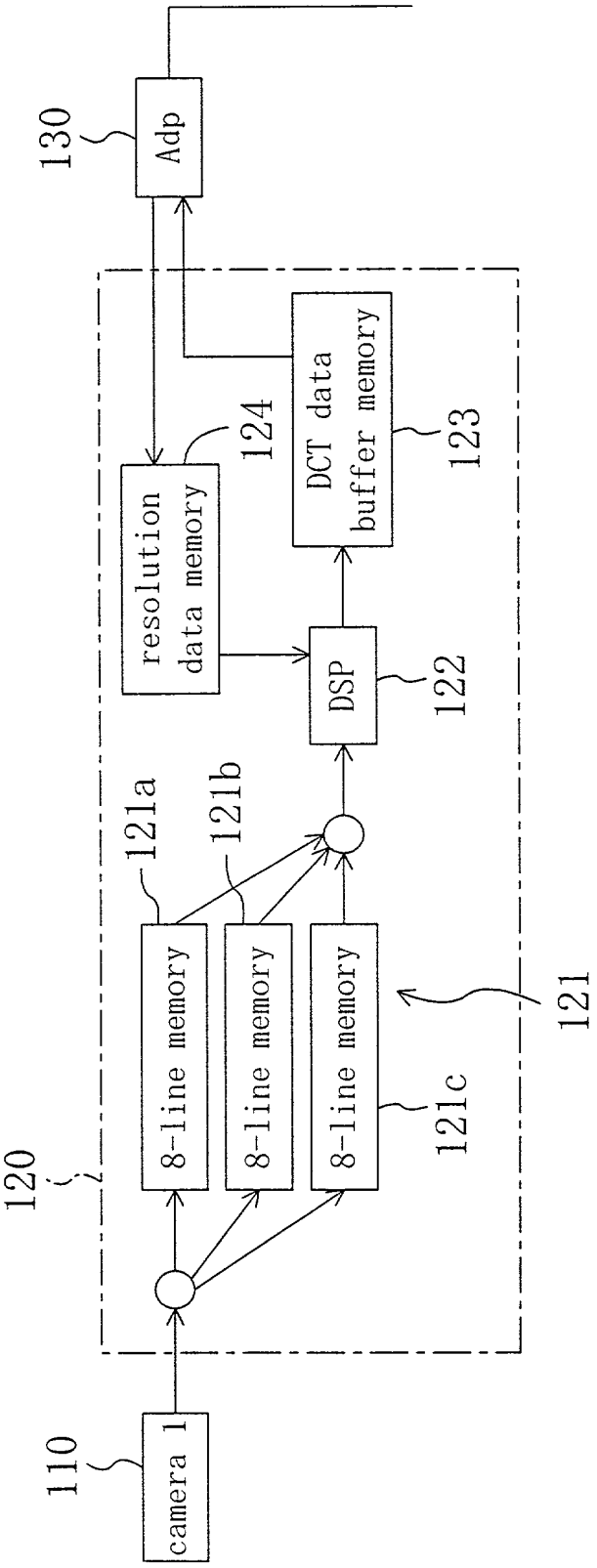

130
Adp
resolution data memory
124
DCT data buffer memory
123
DSP
122
121a
121b
8-line memory
8-line memory
8-line memory
121c
121
120
110
camera 1

FIG. 9

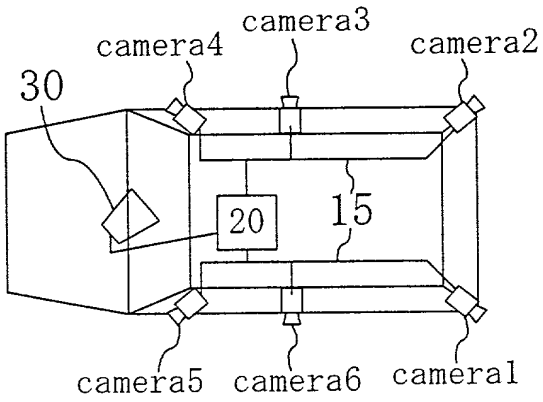


FIG. 10

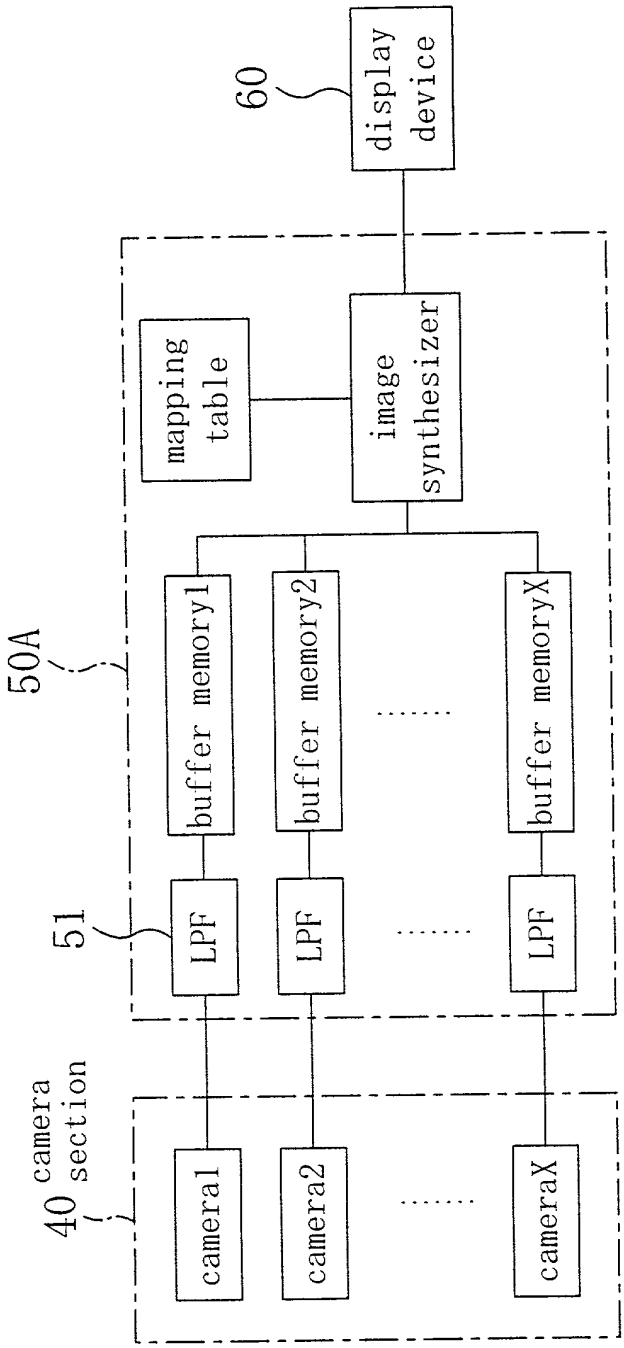

60
display device
50A
mapping table
image synthesizer
buffer memory1
buffer memory2
buffer memoryX
51
LPF
LPF
LPF
40 camera section
camera1
camera2
cameraX

FIG. 11A

<camera 1>

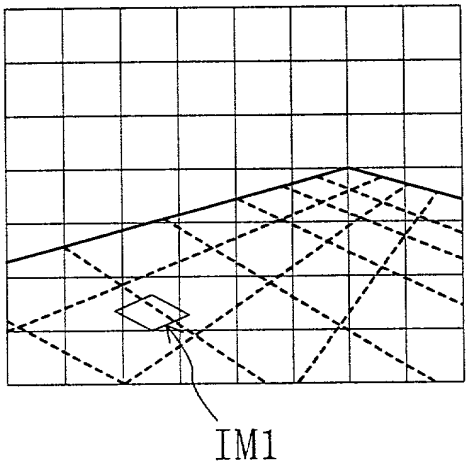


FIG. 11B

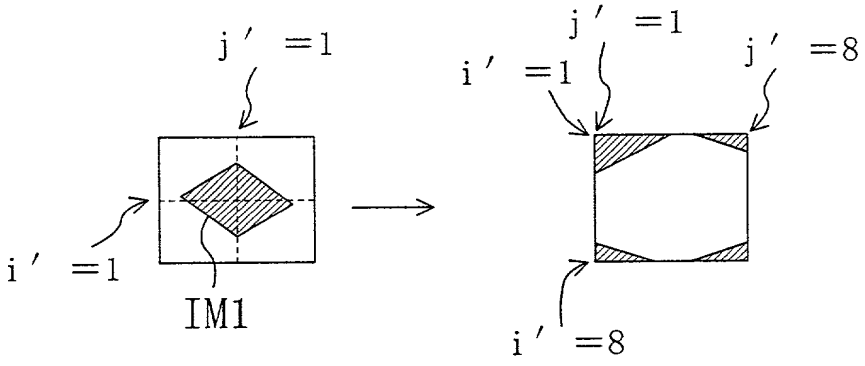


FIG. 12

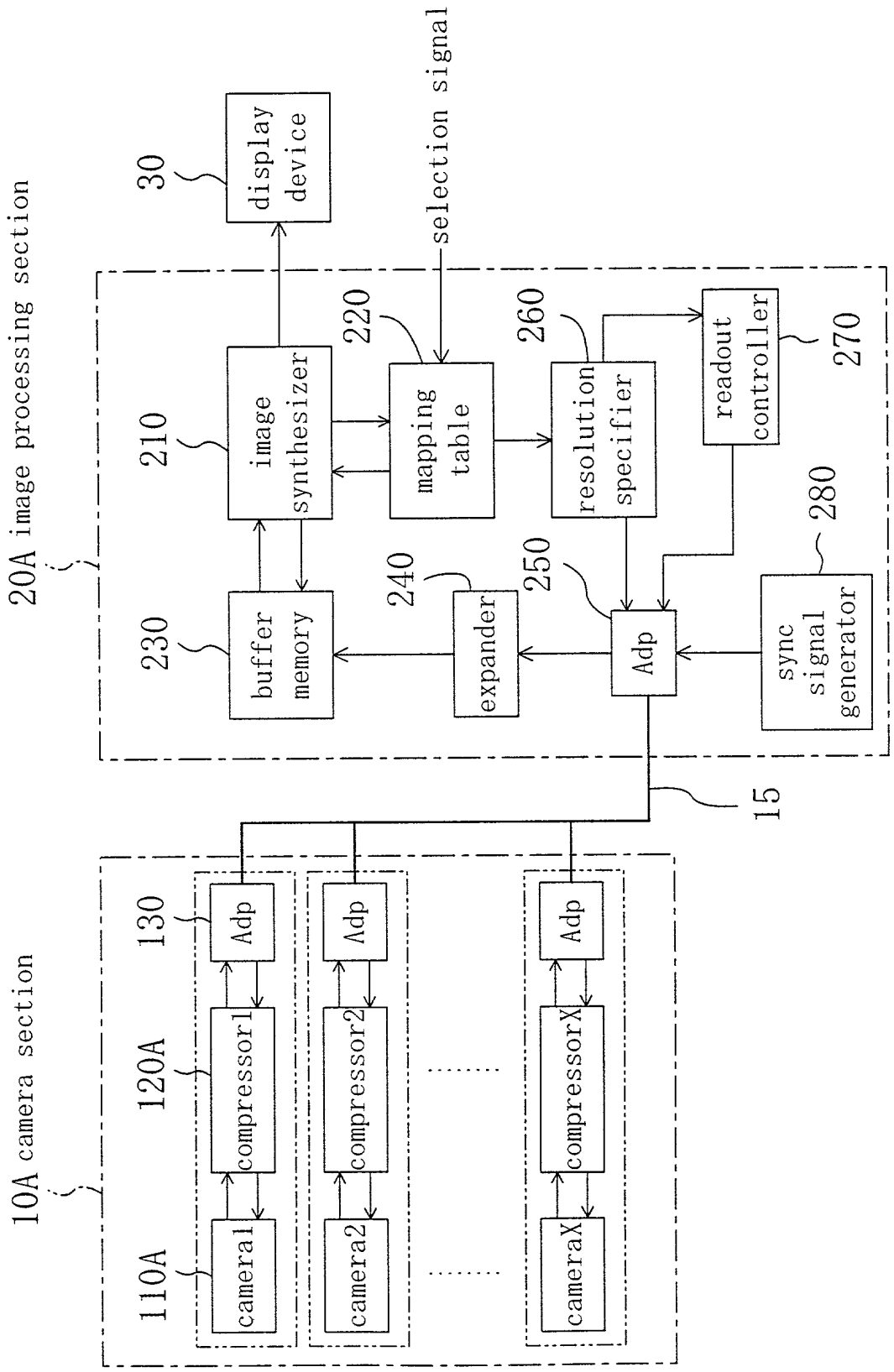

10A camera section
110A
camera1
camera2
cameraX
120A
compressor1
compressor2
compressorX
130
Adp
Adp
Adp
15
20A image processing section
230
buffer memory
240
expander
250
Adp
280
sync signal generator
210
image synthesizer
220
mapping table
260
resolution specifier
270
readout controller
30
display device
selection signal

FIG. 13

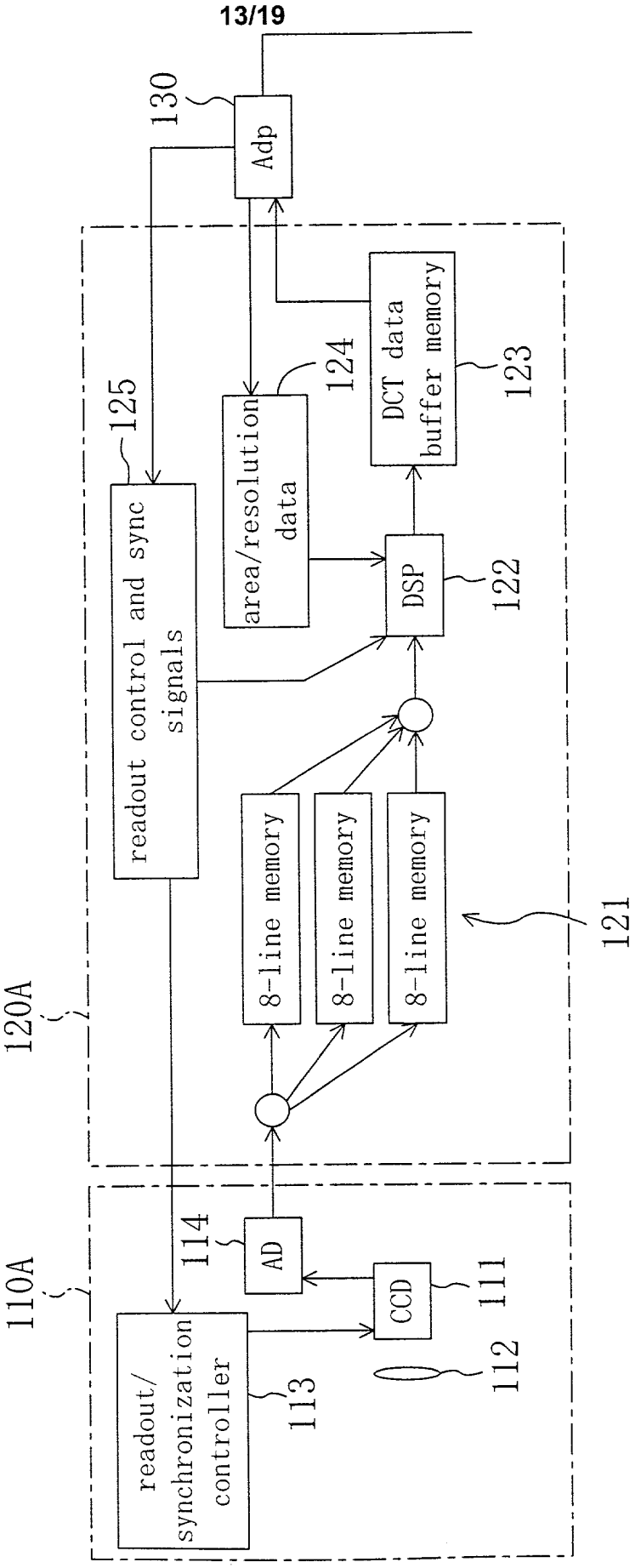

130
Adp
125
readout control and sync signals
124
area/resolution data
123
DCT data buffer memory
122
DSP
8-line memory
8-line memory
8-line memory
121
120A
110A
114
AD
CCD
111
112
readout/ synchronization controller
113

FIG. 14

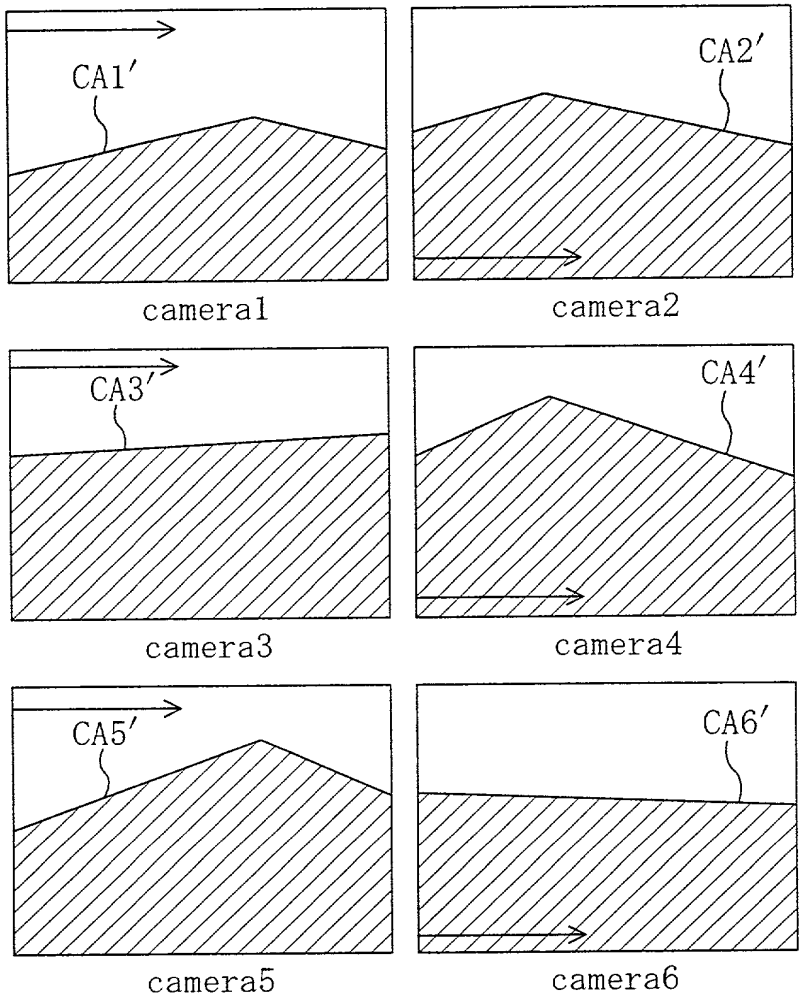

CA1′
camera1
CA2′
camera2
CA3′
camera3
CA4′
camera4
CA5′
camera5
CA6′
camera6

FIG. 15

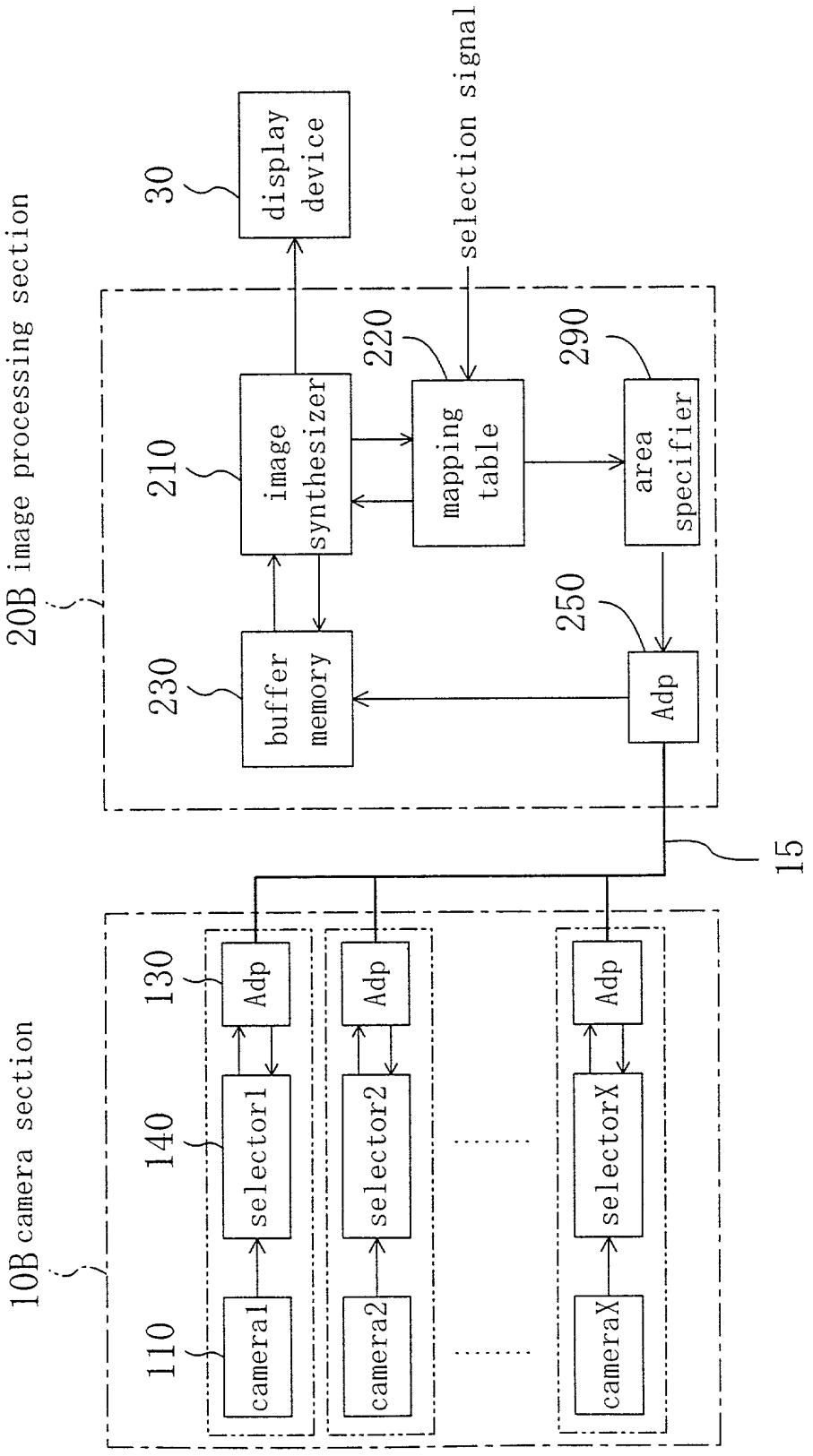

10B camera section
20B image processing section
camera1
camera2
cameraX
selector1
selector2
selectorX
Adp
Adp
Adp
110
130
140
15
buffer memory
image synthesizer
mapping table
area specifier
Adp
230
210
220
290
250
display device
30
selection signal

FIG. 16A

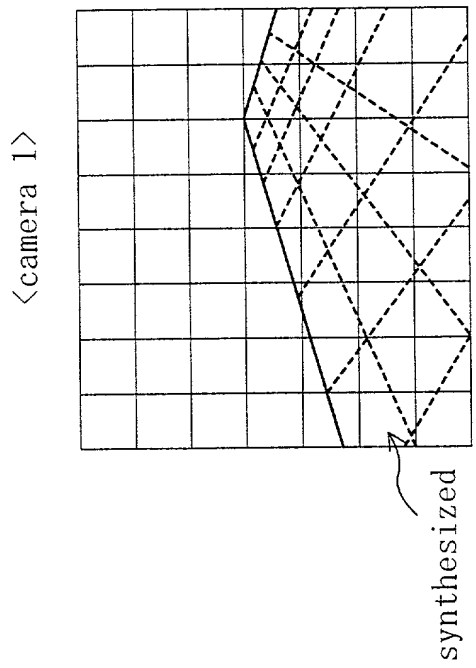


FIG. 16B

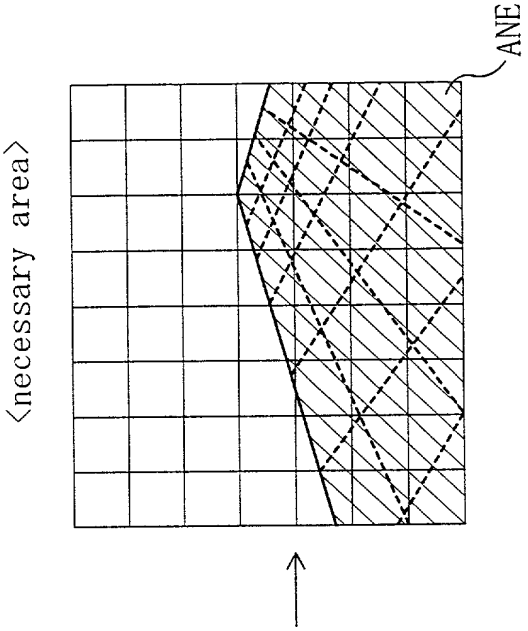


FIG. 17B

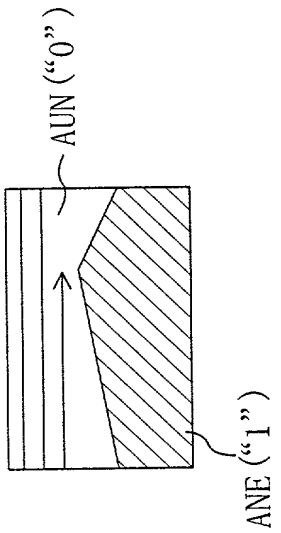


FIG. 17A

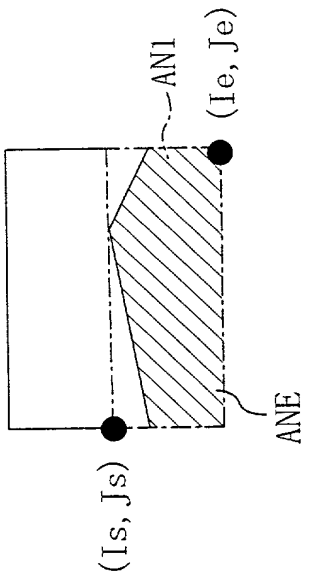


FIG. 18

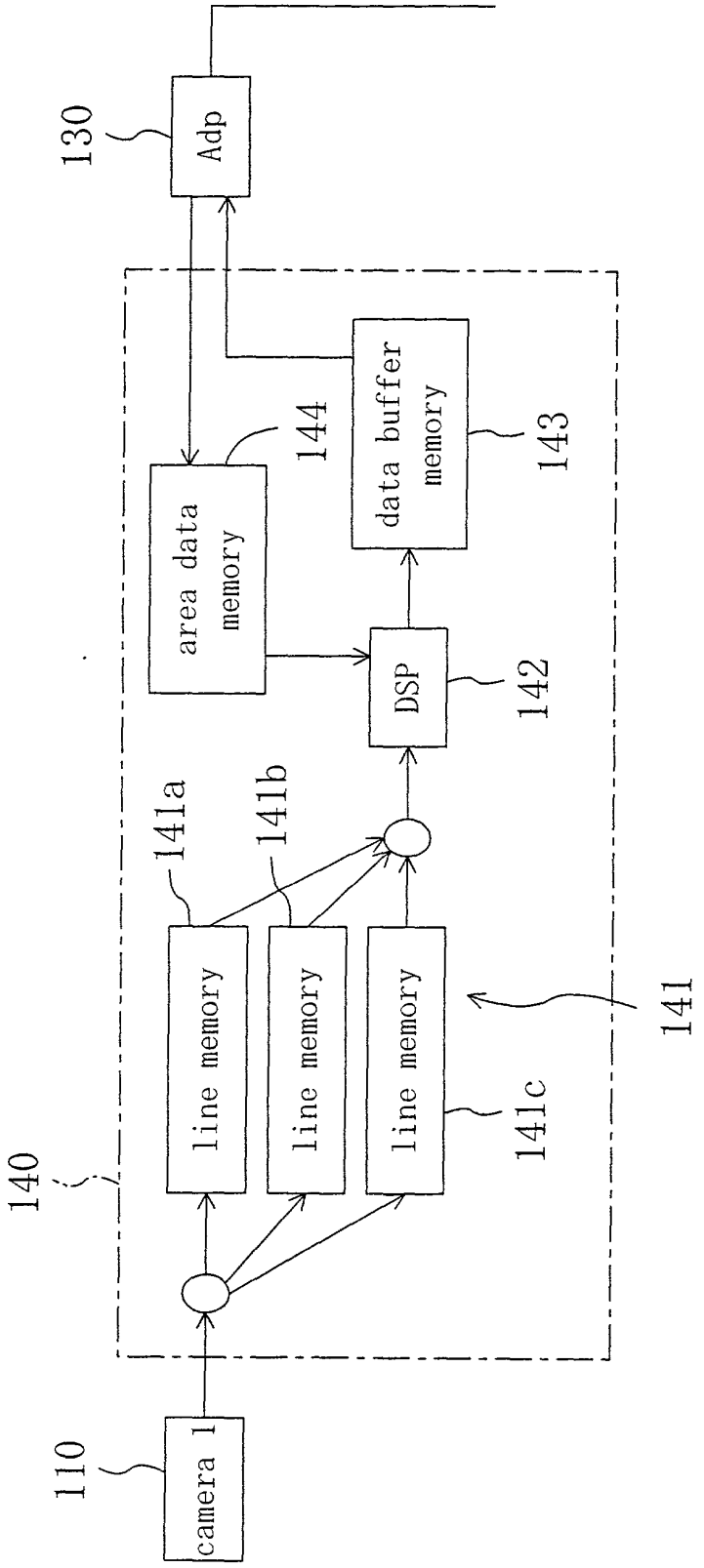

130
Adp
144
area data memory
data buffer memory
143
DSP
142
141a
141b
line memory
line memory
line memory
141c
141
140
110
camera 1

FIG. 19
PRIOR ART